

#5/A
BP
7-24-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Bonner et al.

Art Unit: Unassigned

Application No. Unassigned

Examiner: Unassigned

Filed: November 7, 2001

For: A KIT FOR DETERMINING DNA DOUBLE-
STRANDED BREAKS WITH ANTI- γ -H2A
ANTIBODIES

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Prior to the examination of the above-identified patent application, please enter the following amendments and consider the following remarks.

AMENDMENTS

In the Title:

Replace the title with: A KIT FOR DETERMINING DNA DOUBLE-STRANDED

A1 BREAKS WITH ANTI- γ -H2A ANTIBODIES

In the Specification:

At page 1, line 3, insert:

CROSS-REFERENCE TO RELATED PATENT APPLICATIONS

A2 This patent application is a divisional of copending U.S. Patent Application No. 09/351,721, filed July 12, 1999.

Replace the paragraph from page 6, line 25, to page 7, line 9, with:

A3 The isolated or purified antibody or fragment thereof of the present invention specifically binds to a C-terminal phosphorylated serine in an H2A histone protein. H2A histone proteins are found in all examined species of animals. Preferably, the H2A histone protein is a mammalian H2A histone protein. More preferably, the H2A histone protein is H2AX. H2AX is one of the three types of conserved histone H2A protein